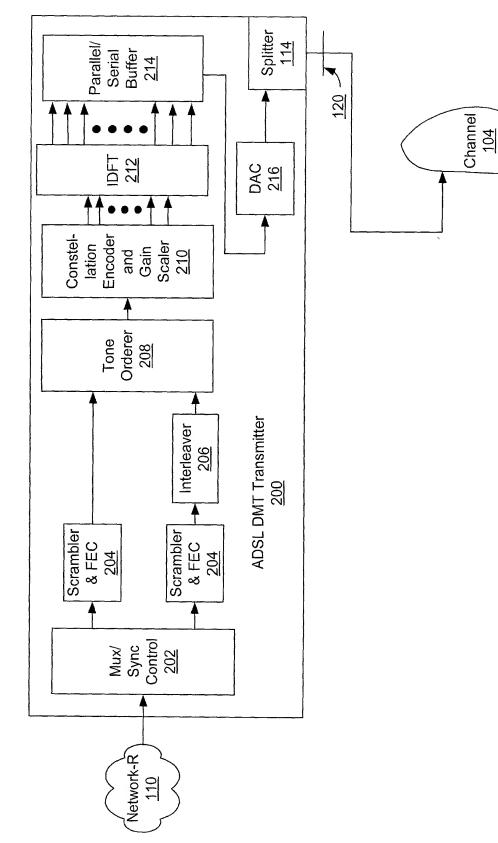


FIG. 2



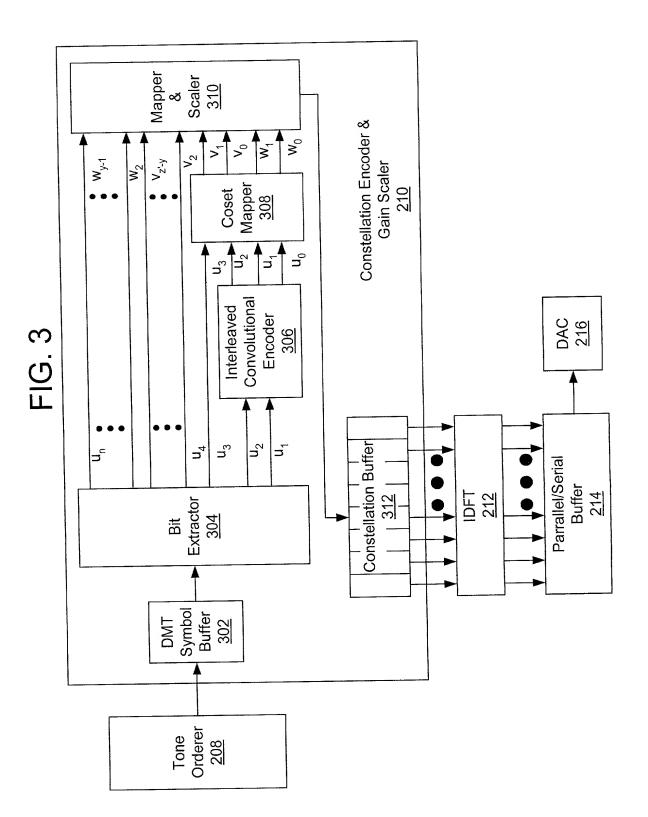


FIG. 4

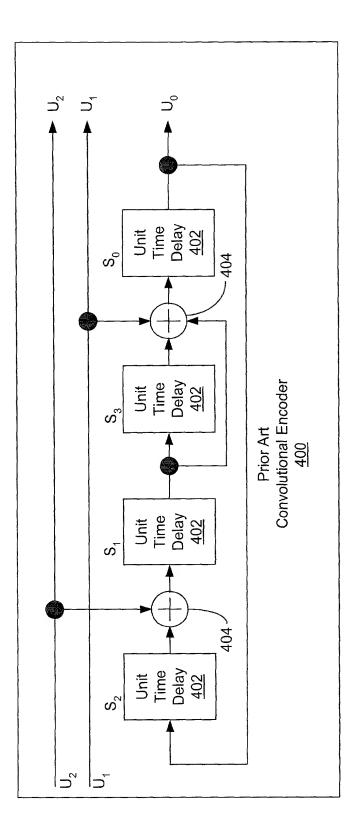


FIG. 5

Discrete Multitone Interleaver (First Embodiment)

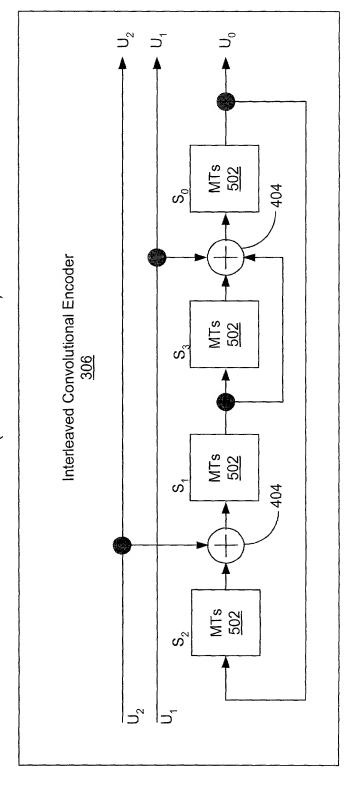
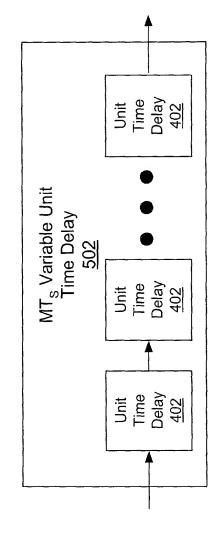
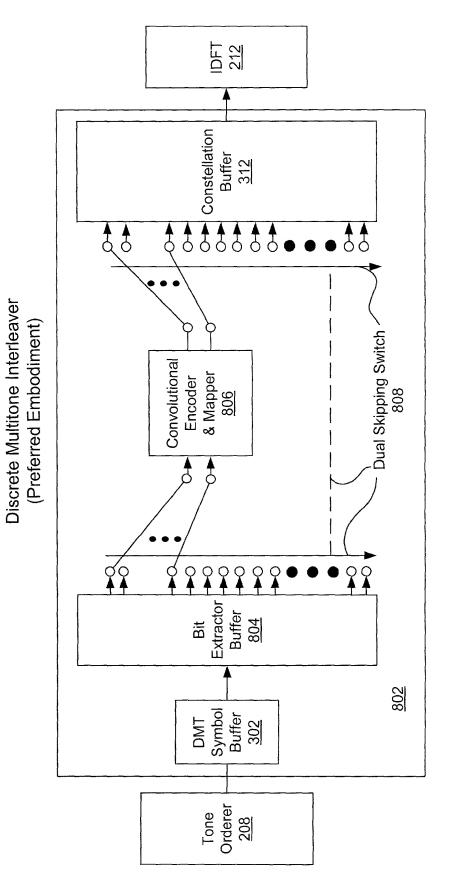


FIG. 6



Mapper & Scaler 310 Constellation Buffer W₂ V_{z'-y} W_{y-1} **V**₂ 312 1DFT 212 n_3 Coset Mapper 308 SDual Switch P Q Q Convolutional Encoder <u>400</u> **FIG. 7**Discrete Multitone Interleaver (Second Embodiment) Convolutional Encoder <u>400</u> Convolutional Encoder 400 9 9 9 9 ٦ r^{2} ร์ Extractor 304 Bit 702 DMT Symbol Buffer 302 Tone Orderer 208

FIG. 8



/B-Band Network Mux/ Sync Control FEC & De-Scrambler 918 Scrambler FEC & 918 ADSL DMT Receiver 902 De-Interleaver <u>916</u> Discrete Multitone Deinterleaver Dual Switch 912 (First Embodiment) Orderer <u>914</u> 9 Convolutional Convolutional Convolutional Decoder 910 Decoder 910 Decoder 910 N-Band Network ADC 906 9 9 9 9 ~ 122 DFT 908 Splitter 904 Channel 104

Q 514

FIG. 10

Discrete Multitone Deinterleaver (Preferred Embodiment)

